Through its three-fold action in arthritis...relief of pain, improvement of function, and resolution of inflammation...BUTAZOLIDIN contributes significantly to the rehabilitation of the arthritic patient.

In addition to its marked therapeutic effectiveness, the advantages of BUTAZOLIDIN include:

Wide Scope of Usefulness—effective in the most crippling and chronic arthritides.

Persistence of Effect—does not provoke tolerance on continued usage.

Nonhormonal in Character— the therapeutic action of BUTAZOLIDIN is not mediated through the pituitary-adrenocortical axis.

BUTAZOLIDIN being a potent agent, the physician should carefully select candidates for treatment and promptly adjust dosage to the minimal individual requirement. Patients should be regularly examined during treatment, and the drug discontinued should side reactions develop.

Detailed literature on request.

BUTAZOLIDIN® (brand of phenylbutazone): Red sugar-coated tablets of 100 mg.

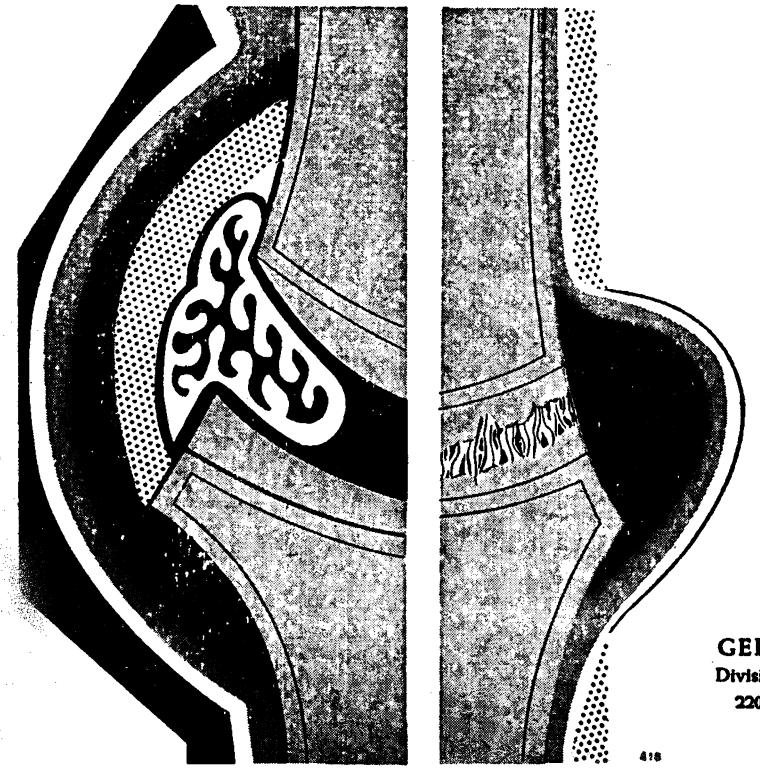
in arthritis and allied disorders

BUTAZOLIDIN®

(brand of phenylbutazone)

nonhormonal anti-arthritic

relieves pain • improves function • resolves inflammation



Geigy

GEIGY PHARMACEUTICALS
Division of Geigy Chemical Corporation
220 Church Street, New York 13, N. Y.
In Canada:
Geigy Pharmaceuticals, Montreal

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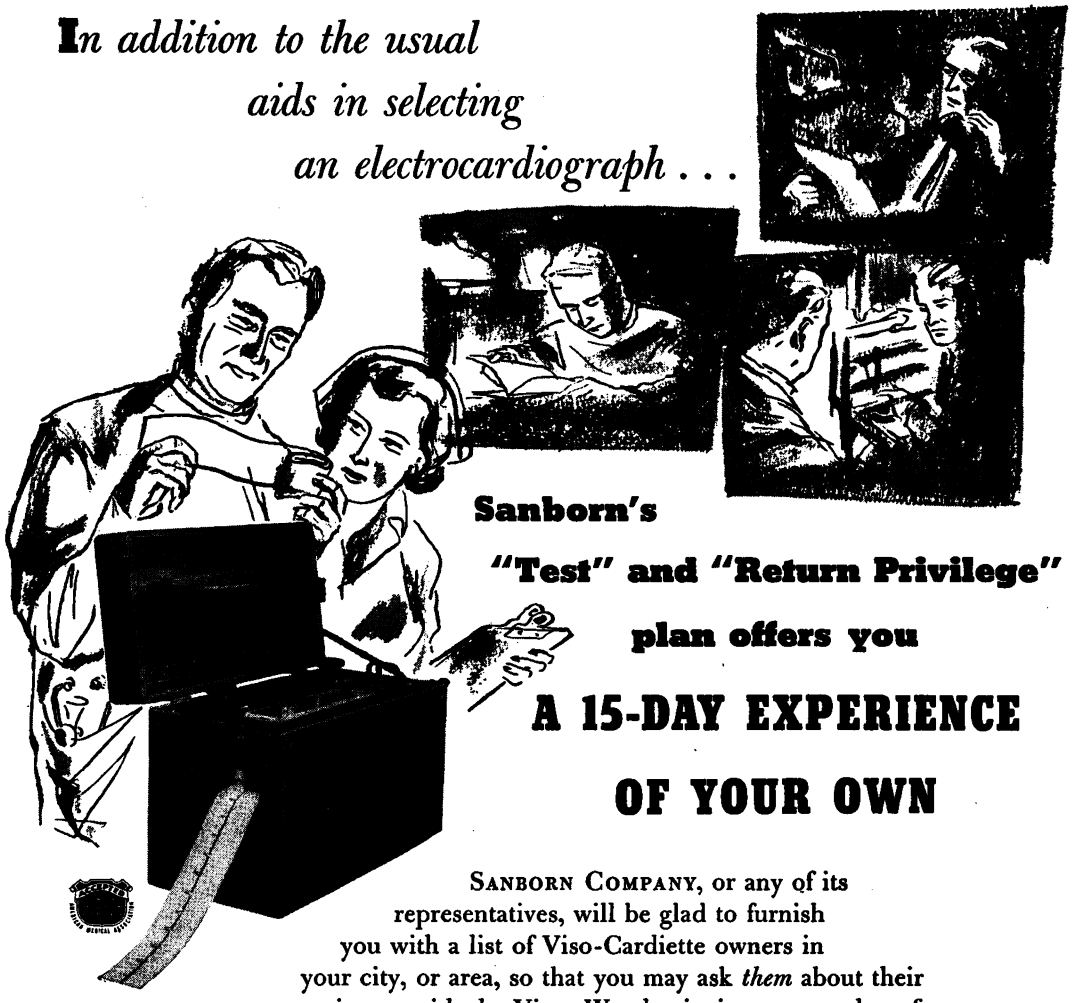
The Bulletin of The New York Academy of Medicine, Vol. 30, No. 12, December, 1954. Published Monthly by The New York Academy of Medicine, 2 East 103 Street, New York 29, N. Y. Entered as second-class matter February 3, 1928, at the Post Office at New York, N. Y., under the Act of August 24, 1912. Annual subscription United States and Canada $6.50 All other countries $7.50. Single copies, 75c.

In addition to the usual aids in selecting an electrocardiograph . . .



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A 15-DAY EXPERIENCE OF YOUR OWN

SANBORN COMPANY, or any of its representatives, will be glad to furnish you with a list of Viso-Cardiette owners in your city, or area, so that you may ask *them* about their experiences with the Viso. We also invite you to ask us for completely descriptive literature on the Viso. And, if you are located in one of the thirty Sanborn Branch Office or Service Agency cities, or its environs, a representative will be more than glad to arrange a demonstration in your office. These are the customarily available aids in selecting an electrocardiograph, not necessarily exclusive to Sanborn.

However, exclusive *with* Sanborn is a "direct-to-user" policy which offers any physician or hospital added benefits in ECG ownership. Among these is the opportunity to use a Viso Cardiette *as your own,* for 15 days, and without obligation of any kind. (If, at the end of the test period, you don't like the Viso, you simply return it to us in its convenient, specially designed shipping carton.)

Thus, to the usual aids in judging and selecting an ECG, Sanborn lets you add *your own experience.* May we tell you more about this plan?

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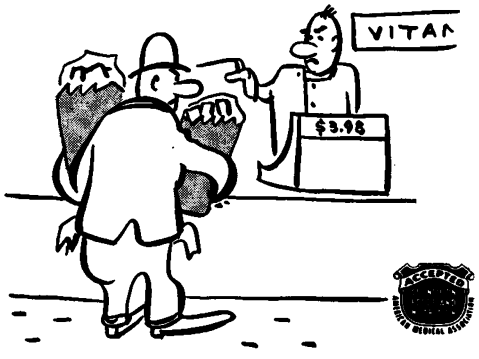

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containing all nutrients known to be essential for infant feeding, including ample "metered" multivitamins. Easy to use (needs only boiled water)—stable—and next to breast milk for uneventful feeding.

- minimizes the possibility of hyper-irritability caused by subclinical tetany
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- minimizes the possibility of excoriations caused by ammoniacal urine

Available through all drug outlets in 1-lb. tins.

and either way—it costs about the same

a BREMIL® formula costs no more than ordinary formulas requiring vitamin adjustment

For samples and literature, write to:

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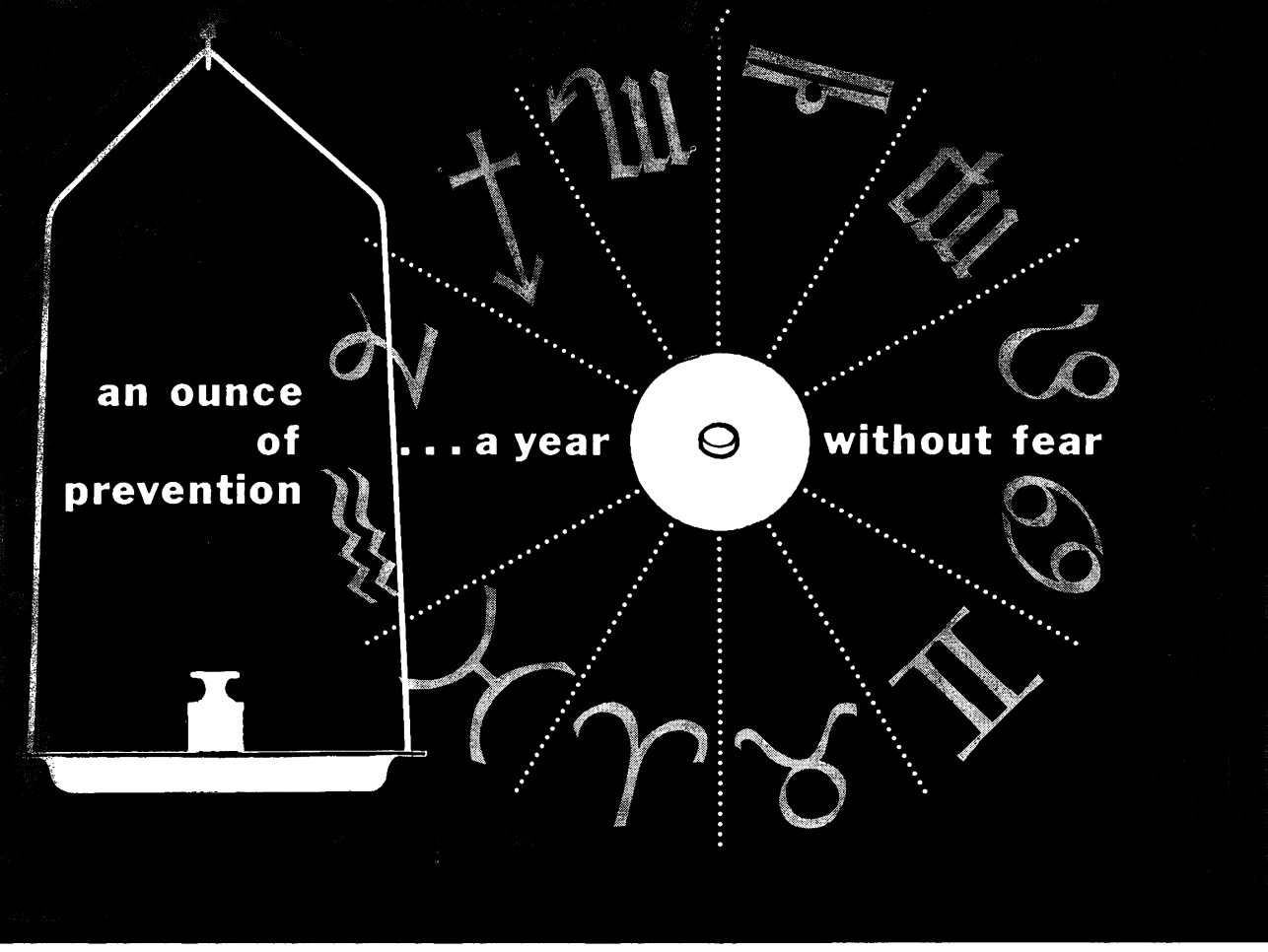
350 Madison Avenue, New York 17



for the patient with angina pectoris

With Peritrate, the long-acting coronary vasodilator, an ounce of prevention (28,350 mg. of Peritrate) lasts a full year or longer, since only 10 or 20 mg. are needed to protect most patients for 4 to 5 hours. Yet, no arithmetic formula can adequately define the effectiveness of Peritrate in providing dramatic relief from pain and from the fear of anginal attacks.

According to tests made by Russek and coworkers, Peritrate is unexcelled in exerting a prolonged prophylactic effect in angina pectoris. The results achieved ". . . were comparable to those obtained with glyceryl trinitrate (nitroglycerin), but the duration of action was considerably more prolonged."[1] Patients on Peritrate generally exhibit significant EKG improvement,[1,2] and their need for nitroglycerin is often reduced.[3] A continuing year-round schedule of 10 or 20 mg. 4 times a day will usually:

1. reduce the number of attacks (in 8 out of 10 patients[2,3]);
2. reduce the severity of attacks not prevented.

Available in both 10 mg. and 20 mg. tablets and, for extended night-long protection, in Enteric Coated tablets (10 mg.).

1. Russek, H. I.; Urbach, K. F.; Doerner, A. A., and Zohman, B. L.: J.A.M.A. *153*:207 (Sept. 19) 1953. 2. Winsor, T., and Humphreys, P.: Angiology *3*:1 (Feb.) 1952. 3. Plotz, M.: New York State J. Med. *52*:2012 (Aug. 15) 1952.

Peritrate®

tetranitrate

(BRAND OF PENTAERYTHRITOL TETRANITRATE)

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when resistance to other antibiotics develops...

Chloromycetin®

Current reports[1,2] describe the increasing incidence of resistance among many pathogenic strains of microorganisms to some of the antibiotics commonly in use. Because this phenomenon is often less marked following administration of CHLOROMYCETIN (chloramphenicol, Parke-Davis), this notably effective, broad spectrum antibiotic is frequently effective where other antibiotics fail.

Coliform bacilli—100 strains

up to 43% resistant to other antibiotics;
2% resistant to CHLOROMYCETIN.[1]

Staphylococcus aureus—500 strains

up to 73% resistant to other antibiotics;
2.4% resistant to CHLOROMYCETIN.[2]

CHLOROMYCETIN is a potent therapeutic agent and, because certain blood dyscrasias have been associated with its administration, it should not be used indiscriminately or for minor infections. Furthermore, as with certain other drugs, adequate blood studies should be made when the patient requires prolonged or intermittent therapy.

References
(1) Kirby, W. M. M.; Waddington, W. S., & Doornink, G. M.: Antibiotics Annual, 1953-1954, New York, Medical Encyclopedia, Inc., 1953, p. 285. (2) Finland, M., & Haight, T. H.: *Arch. Int. Med.* **91**: 143, 1953.

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Reduce
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'HEXAMETON'®

CHLORIDE brand

Hexamethonium Chloride

Potent ganglionic blocking agent; modifies vasoconstriction by cutting off some sympathetic stimulation.

Many patients taking 'Hexameton', orally or subcutaneously, are maintained at reasonably normotensive levels; signs and symptoms of chronic hypertension are often reversed.

Full details, of dosage, administration, and precautions will be sent on request.

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'HEXAMETON' Chloride brand Hexamethonium Chloride COMPRESSED. 250 mg. and 500 mg. Both strengths scored.

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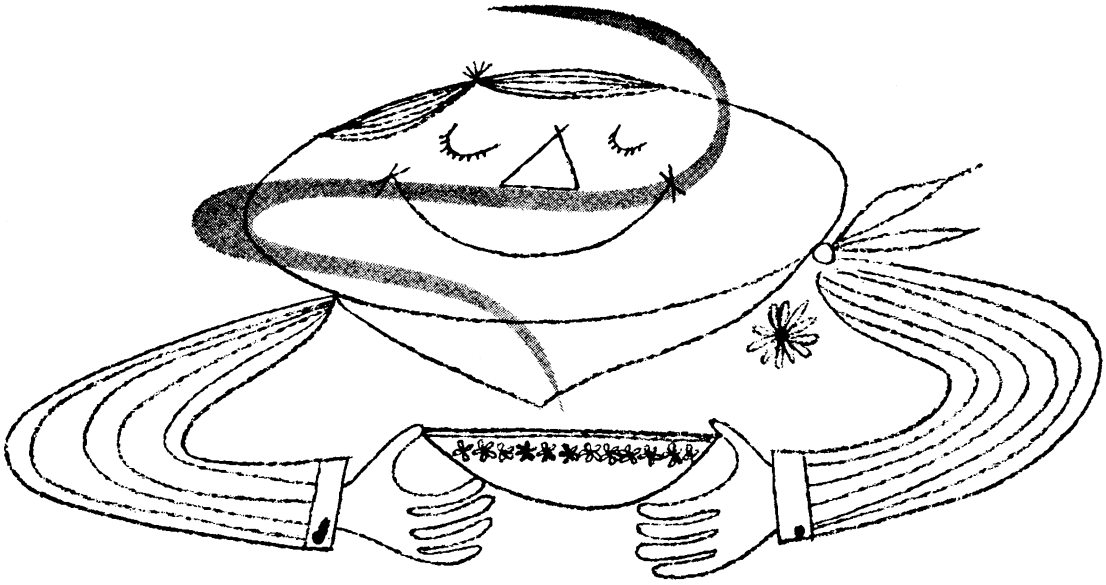
BURROUGHS WELLCOME & CO. (U.S.A.) INC., *Tuckahoe 7, New York*



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DIASAL is enthusiastically endorsed by low-salt dieters for the zest and flavor it gives to pallid, sodium-restricted meals. So closely does it match the appearance, texture and taste of table salt that patient adherence to your diet instructions is virtually assured.

DIASAL contains only potassium chloride, glutamic acid and inert ingredients...no sodium, lithium, or ammonium. It may be used safely for extended periods, both at the table and in cooking. Because of its potassium, DIASAL may be a valuable prophylactic against potassium depletion.

DIASAL®

packaging: available in 2-ounce shakers and 8-ounce bottles. Send for liberal supplies of tasting samples and low-sodium-diet sheets for your patients.

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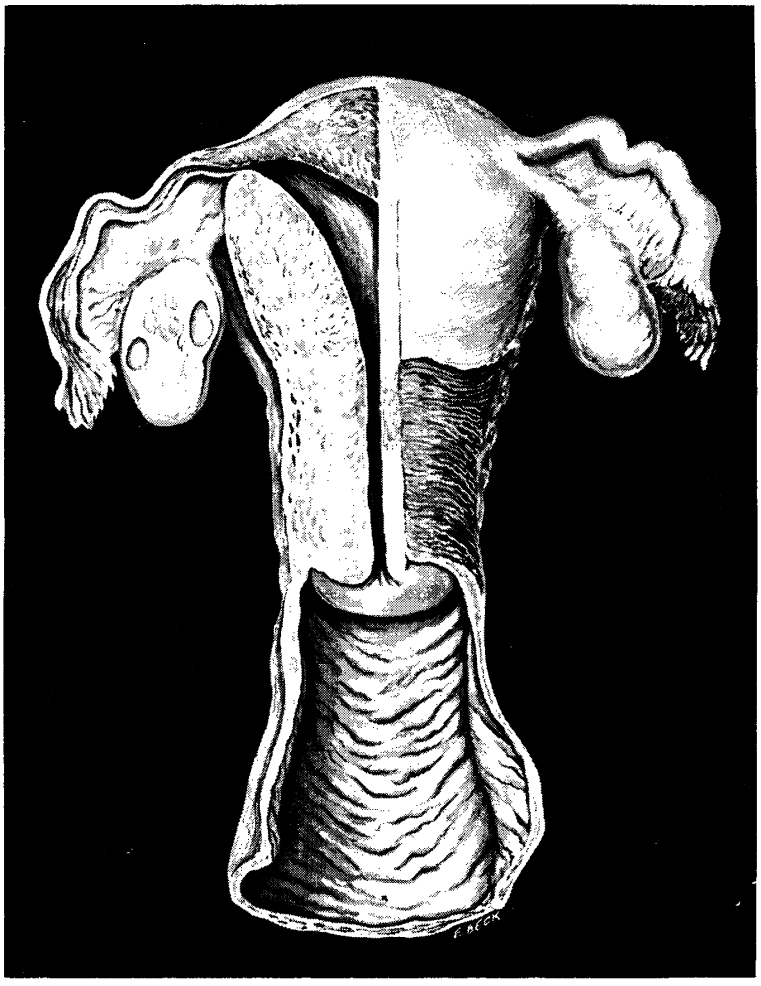
Vallestril insures maximal estrogenic potency with minimal activity on the endometrium and thus singular freedom from withdrawal bleeding.



Unique "Target Action" of Vallestril®

Vallestril has been found to exert its selective "target action" on the vaginal mucosa. Conversely the effect on the uterus or endometrium is negligible.

In pharmacologic studies, using the Allen-Doisy technic, Vallestril was found to be more active than estradiol and twice as potent as estrone on the vaginal mucosa. On the other hand, using the Rubin technic, Vallestril was found to have only one-tenth the activity of estrone on the uterus, a suggested explanation of its low incidence of withdrawal bleeding.

In clinical evaluation, covering a period of two and one-half years, Vallestril was found* to be "an effective synthetic estrogen . . . singularly free from toxic effects and complications, especially uterine bleeding. . . . The beneficial effect of the medication appeared within three or four days in most menopausal patients . . . . failure to encounter withdrawal bleeding in any patient was most gratifying. . . ."

Such unwanted reactions as nausea, mastalgia and edema also occur less frequently with Vallestril.

Vallestril is preferentially indicated whenever estrogens are of value: The menopausal syndrome; pain of postmenopausal osteoporosis; pain of osseous metastases of prostatic cancer.

Dosage: Menopause—3 mg. (1 tablet) two or three times daily for two or three weeks, followed by 3 or 6 mg. daily for one month. Supplied only in scored tablets of 3 mg. G. D. Searle & Co., Research in the Service of Medicine.

---

*Sturnick, M. I., and Gargill, S. L.: New England J. Med. *247*:829 (Nov. 27) 1952.

in hypertension

Nitranitol with Rauwolfia

tandem action for safe, gradual, prolonged relief

Nitranitol for prompt relief of distressing symptoms... slower acting Rauwolfia for prolonged hypotensive and quieting action--no lag in symptom relief. The combination means normal life sooner for your essential hypertensives... no jolting of the vasomotor reflexes... side effects are uncommon.

write: **Nitranitol** RAUWOLFIA **R.S.** SERPENTINA

for a more normal life sooner for your hypertensive patient

Rx INFORMATION

SIX DOSAGE FORMS

Nitranitol R.S.
for direct vasodilation plus the added central hypotensive and calming actions of Rauwolfia serpentina

Mannitol hexanitrate . 32 mg.
Rauwolfia serpentina (alseroxylon fraction) . 0.5 mg.

Nitranitol
for safe, gradual, prolonged vasodilation

Mannitol hexanitrate . 32 mg.

Nitranitol with Phenobarbital
for the nervous hypertensive

Mannitol hexanitrate . 32 mg.
Phenobarbital . . . . . 16 mg.

Nitranitol with Phenobarbital and Rutin*
for protection in capillary fragility

with Rutin . . . . . 20 mg.

Nitranitol with Phenobarbital and Theophylline*
in threatened cardiac failure

with Theophylline . . 100 mg.

Nitranitol P.V.*
in refractory cases

with alkavervir . . . . . 1 mg.
(alkaloidal fraction of Veratrum viride, standardized for hypotensive activity)

DOSAGE: In blood pressures over 200 systolic, 2 tablets four times daily. In other cases, 1 or 2 tablets every four to six hours. Bottles of 100 and 1,000.

NOTE: Nitranitol is exceptionally stable, assuring uniform potency, so important in medication for your hypertensives.

*Each contains mannitol hexanitrate 32 mg. and phenobarbital 16 mg.

Merrell
Since 1828

PIONEER IN MEDICINE FOR OVER 125 YEARS

T. M. NITRANITOL®, 'NITRANITOL P.V.' AND 'NITRANITOL R.S.'

newest

broad-spectrum antibiotic

Tetracyn*

Brand of **tetracycline**

is now available on prescription from *Pfizer Laboratories,* Division, Chas. Pfizer & Co., Inc., world's largest producer of antibiotics, discoverers of oxytetracycline and the first to describe the structure of tetracycline, nucleus of modern broad-spectrum antibiotic therapy.

Tetracyn is supplied as Capsules, Tablets, Oral Suspension (chocolate flavored), Pediatric Drops (banana flavored), Intravenous, Intramuscular, Ophthalmic Ointment, and Ointment (topical).

*TRADEMARK

For well-tolerated therapy of such common infections as:

Pneumococcal infections, including pneumonia, with or without bacteremia; streptococcal infections, with or without bacteremia, including follicular tonsillitis, septic sore throat, scarlet fever, pharyngitis, cellulitis, urinary tract infections due to susceptible organisms, and meningitis; many staphylococcal infections, with or without bacteremia, including furunculosis, septicemia, abscesses, impetigo, acute otitis media, ophthalmic infections, susceptible urinary tract infections, bronchopulmonary infections, acute bronchitis, pharyngitis, laryngotracheitis, tracheobronchitis, sinusitis, tonsillitis, otitis media, and osteomyelitis; certain mixed bacterial infections; soft tissue infections due to susceptible organisms.

Pfizer PFIZER LABORATORIES, Brooklyn 6, N. Y.
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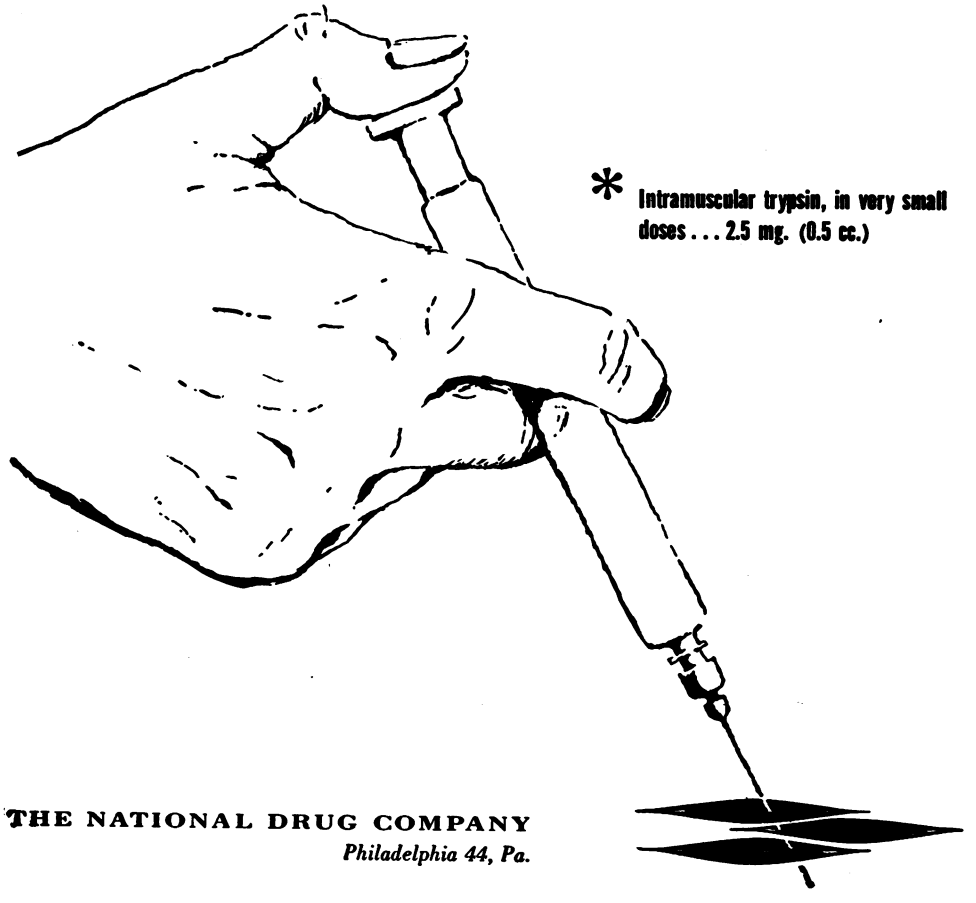
Parenzyme*

A new, effective weapon
against acute
local inflammation

Restores Local Circulation...



* Intramuscular trypsin, in very small doses . . . 2.5 mg. (0.5 cc.)

THE NATIONAL DRUG COMPANY
Philadelphia 44, Pa.

PARENZYME (INTRAMUSCULAR trypsin) is based on an entirely new concept of *biological continuity* . . . in terms of clinical enzymology. In very small doses, it initiates physiologic mechanisms—and

- dramatically restores circulation
- expedites repair of tissue
- prevents tissue necrosis

Safe, compatible, not an anticoagulant. No toxic reactions have been reported following administration of this new, intramuscular form of trypsin. PARENZYME therapy does not preclude the coadministration of other drugs. PARENZYME does *not* alter the clotting mechanism.

with dramatic benefits in

phlebitis	**iritis**
thrombophlebitis	**iridocyclitis**
phlebothrombosis	**chorioretinitis**
traumatic wounds	**varicose and diabetic leg ulcers**

DOSAGE: *Therapeutic:* 2.5 mg. (0.5 cc.) of PARENZYME (INTRAMUSCULAR trypsin) injected deep intragluteally 1 to 4 times daily for 3 to 8 days. *When more intensive therapy seems indicated, small doses at more frequent intervals ensure better results than larger doses less often.*

MAINTENANCE: To stabilize response to therapy, or in recurrent or chronic diseases, 2.5 mg. (0.5 cc.) once or twice a week may be required for maximum benefit.

Vials of 5 cc. (5 mg./cc.: crystalline trypsin suspended in sesame oil), by prescription only.

Information on PARENZYME and on the research background of clinical enzymology will be mailed on request.

Parenzyme

Intramuscular trypsin

NATIONAL

For ESSENTIAL HYPERTENSION

an alliance of the classic and contemporary . . .

New

THEOMINAL R.S.

(Theominal with Rauwolfia serpentina)

Combines for synergistic action:

Theobromine	*(5 grains) 0.32 Gm.*
Luminal® (pioneer brand of phenobarbital)	*(1/6 grain) 10 mg.*
Rauwolfia serpentina alkaloids (alseroxylon fraction)	***1.5 mg.***

Theominal itself has been widely prescribed for essential hypertension for several decades. The addition of Rauwolfia serpentina alkaloids—purified alseroxylon fraction—to the well established Theominal formula represents a substantial improvement.

With the use of Theominal R.S., objective and subjective improvement can be obtained in a large percentage of hypertensive patients. There is mild and gradual but sustained reduction of excessive blood pressure and pulse rate to near normal levels. Striking symptomatic improvement occurs concurrently: alleviation of congestive headache, vertigo, dyspnea, nervous irritability, apprehension and insomnia.

With Theominal R.S. medication the antihypertensive action of Luminal and theobromine may be evident in a few days, whereas a week or more may elapse before the Rauwolfia component exhibits its maximum effectiveness. However, the sense of well being due to Rauwolfia is experienced within a few days of medication and usually precedes the development of the maximum antihypertensive effect. Theominal R.S. is well tolerated.

DOSAGE: The usual dose of Theominal R.S. is 1 tablet two or three times daily. When improvement has been maintained for a time, the dose may be reduced or medication suspended occasionally until its resumption is indicated.

HOW SUPPLIED: Theominal R.S. is supplied in bottles of 100 tablets.

WINTHROP

Theominal and Luminal, trademarks reg. U. S. Pat. Off.

LONG BEFORE HOT FLUSHES APPEAR . . .

Patients presenting such classic menopausal symptoms as hot flushes cause little diagnostic difficulty. However, throughout the period of declining ovarian function which may begin long before hot flushes appear, many women complain of distressing symptoms which though less clearly defined are actually due to estrogen deficiency. For example, insomnia, headache, easy fatigability, and symptoms affecting the bones, joints, and the skin may not be readily identified as due to estrogen deficiency because they may occur years before, or even years after cessation of menstruation.

Investigators[1,2] have found that as the body attempts to adjust itself to declining estrogen production, a number of symptoms may appear which call for the prompt institution of estrogen replacement therapy. These symptoms may be nervous, circulatory, arthralgic, or dermatologic in character because the loss of ovarian hormone "withdraws one of the most important metabolic regulators of the organism"[3] and affects many body functions. If such metabolic imbalance or deficiency is evidenced, the administration of estrogen is clearly indicated.

"PREMARIN" presents the complete equine estrogen-complex as it naturally occurs. "Premarin" not only produces prompt symptomatic relief, but it also imparts a gratifying and distinctive "sense of well-being." It has no odor . . . imparts no odor.

"PREMARIN"®

ACCEPTED COUNCIL ON PHARMACY AND CHEMISTRY AMERICAN MEDICAL ASSOCIATION

Estrogenic substances (water-soluble), also known as conjugated estrogens (equine). Available in both tablet and liquid form.

1. Werner, A.: Acta endocrinol. *13*:87, 1953.
2. Malleson, J.: Lancet *2*:158 (July 25) 1953.
3. Goldzieher, M. A., and Goldzieher, J. W.: Endocrine Treatment in General Practice, New York, Springer Publishing Company, Inc., 1953, p. 23.

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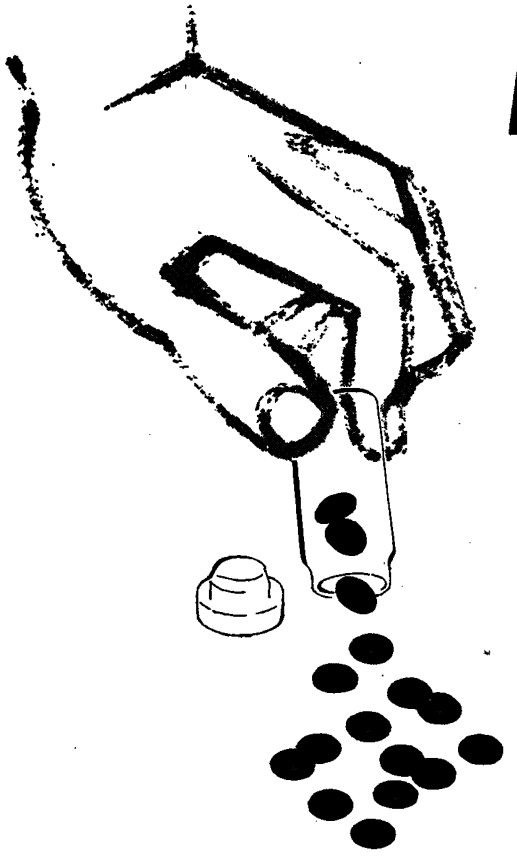

ACHROMYCIN
TETRACYCLINE
TABLETS

A widely prescribed form of the outstanding broad-spectrum antibiotic

Sugar-coated, easy-to-swallow ACHROMYCIN Tablets are available in three potencies: 50, 100, and 250 mg.

In each of its many forms, ACHROMYCIN exhibits notable characteristics: it diffuses rapidly in body tissues and fluids; gastrointestinal irritation is rare and mild in nature.

ACHROMYCIN has proved effective against a wide variety of infections including those caused by Gram-positive and Gram-negative bacteria, rickettsia, and certain virus-like and protozoan organisms.

OTHER DOSAGE FORMS

CAPSULES: 50, 100, and 250 mg.
PEDIATRIC DROPS: (see opposite page)
ORAL SUSPENSION: (see opposite page)
SPERSOIDS* Dispersible Powder (Chocolate Flavor): 50 mg. per rounded teaspoonful (3 Gm.), 12 and 25 dose bottles
SOLUBLE TABLETS: 50 mg.
INTRAVENOUS: vials of 100, 250, and 500 mg.
INTRAMUSCULAR: vials of 100 mg. (for dilution with 2 cc. of sterile water or saline)
TOPICAL OINTMENT (3%): ½ and 1 oz. tubes
OPHTHALMIC OINTMENT (1%): ⅛ oz. tubes
EAR SOLUTION (0.5%): 10 cc. dropper bottles

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Lederle

ACHROMYCIN*

Tetracycline Lederle

ACHROMYCIN*

Tetracycline Lederle

ORAL SUSPENSION and PEDIATRIC DROPS

popular cherry flavor

ACHROMYCIN is available in two cherry-flavored dosage forms that are highly acceptable to patients—particularly children.

The Pediatric Drops are packaged with an easy-to-read graduated dropper. The Oral Suspension, supplied as dry crystals in a 1 oz. bottle. Both Oral Suspension and Pediatric Drops, when reconstituted by the pharmacist or nurse, retain potency for two weeks at room temperature.

ACHROMYCIN, an outstanding broad-spectrum antibiotic, is relatively free from untoward side reactions and provides rapid diffusion in body tissues and fluids.

ORAL SUSPENSION (Cherry Flavor): 250 mg. per teaspoonful (5 cc.), 1 oz. bottles

PEDIATRIC DROPS (Cherry Flavor): 100 mg. per cc. (approx. 5 mg. per drop), 10 cc bottles

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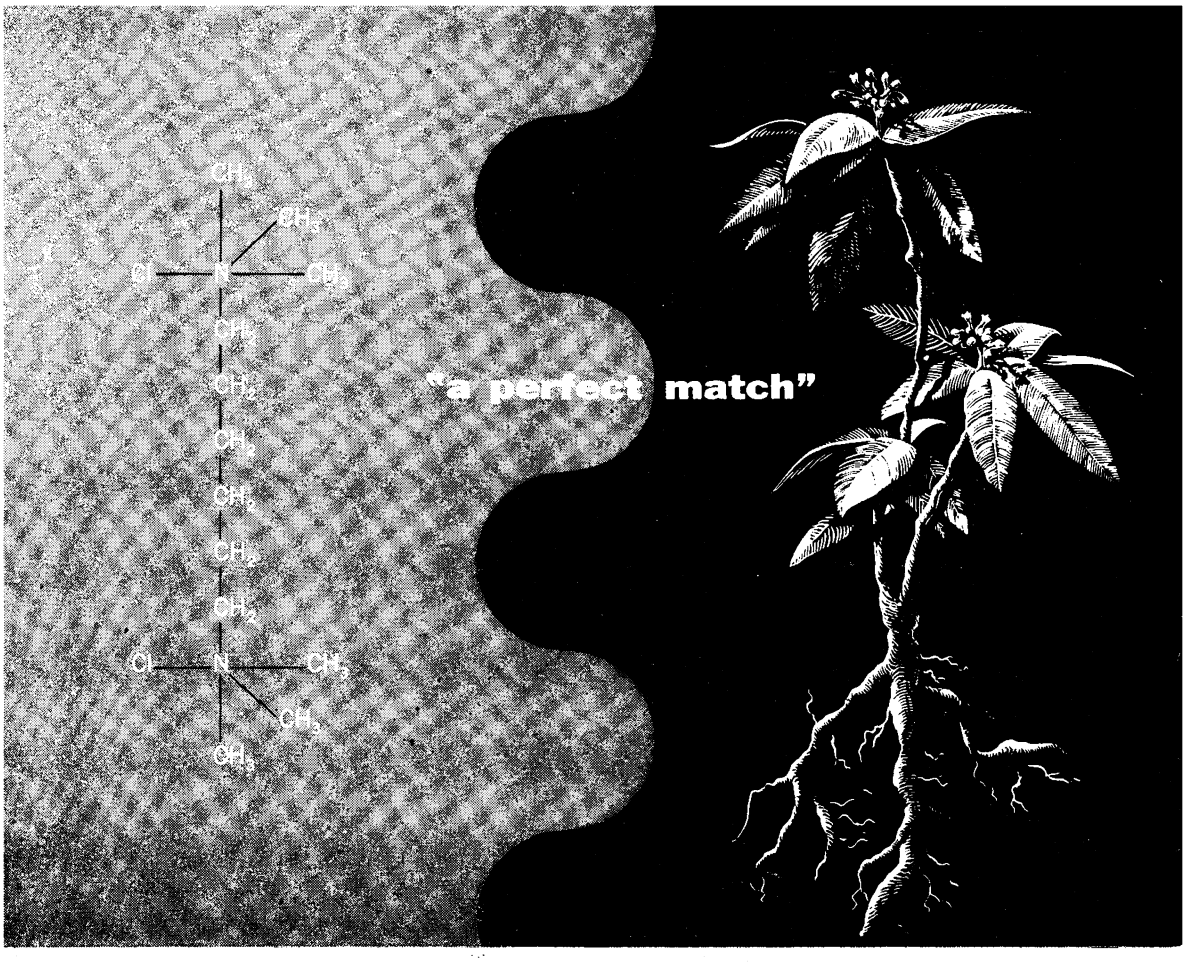
LEDERLE LABORATORIES DIVISION

AMERICAN Cyanamid COMPANY PEARL RIVER, N.Y.

Lederle



in the management of hypertension

The potent autonomic ganglionic blocking action of Methium has now been augmented by the mild hypotensive and sedative properties of reserpine. A true synergistic combination, Methium with Reserpine produces "better hemodynamic stability than when either one is used alone."[1] In one series, a greater number of patients obtained adequate blood pressure reduction than from any single drug or combination of drugs previously reported.[1]

As blood pressure is reduced – and even without reduction – hypertension symptoms such as headache, retinopathy and palpitation have been alleviated.[2] Of special significance, a satisfactory response has been achieved with less than half the usual dosage requirements for Methium.[2] As a result, "the occurrence and intensity of physiologic side effects were markedly reduced and were minimal and of benign nature."[2]

Because of the potency of Methium, careful use is, nevertheless, required. Precautions are indicated in the presence of renal, cardiac or cerebral arterial insufficiency. Markedly impaired renal function is usually a contraindication.

Supplied:

Methium 125 with Reserpine—scored tablets containing 125 mg. of Methium and 0.125 mg. of reserpine.

Methium 250 with Reserpine—scored tablets containing 250 mg. of Methium and 0.125 mg. of reserpine.

1. Ford, R. V., and Moyer, J. H.: Am. Heart J. *46*:754 (Nov.) 1953.
2. Crawley, C. J., *et al.*: New York State J. Med. *54*:2205 (Aug. 1) 1954.

Methium® with Reserpine

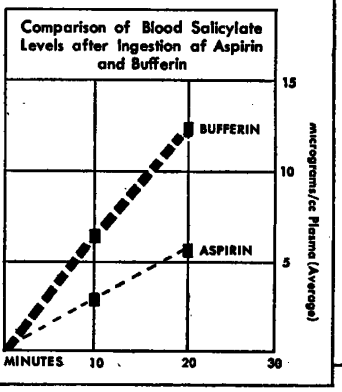
CHLORIDE
(BRAND OF HEXAMETHONIUM CHLORIDE)

WARNER-CHILCOTT

Faster Pain Relief with BUFFERIN®

1 ACTS TWICE AS FAST AS ASPIRIN

The antacids in Bufferin speed its pain-relieving ingredients through the stomach and into the blood stream. Actual chemical determinations show that within ten minutes after Bufferin is ingested blood salicylate levels are higher than those attained by aspirin in twice this time.[1]



2 DOES NOT UPSET THE STOMACH

Bufferin's antacid ingredients protect the stomach against aspirin irritation. This has been clinically demonstrated on hundreds of patients.

In usual doses

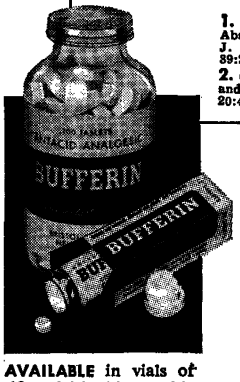
In a series of 238 cases, 22 had a history of gastric distress due to aspirin but only one reported any distress after taking 2 Bufferin tablets (equivalent to 10 grains of aspirin).[1]

In large doses

In a recent study group, 1006 patients received, over a 24 hour period, 12 Bufferin tablets (equivalent to 60 grains of aspirin). Although 72 had a history of being sensitive to aspirin, only 18 reported any gastric side-effect with Bufferin.[2]

1. Effect of Buffering Agents on Absorption of Acetylsalicylic Acid. J. Am. Pharm. Assoc., Sc. Ed. 39:21, Jan. 1950

2. Gastric Tolerance for Aspirin and Buffered Aspirin. Ind. Med. 20:480, Oct. 1951



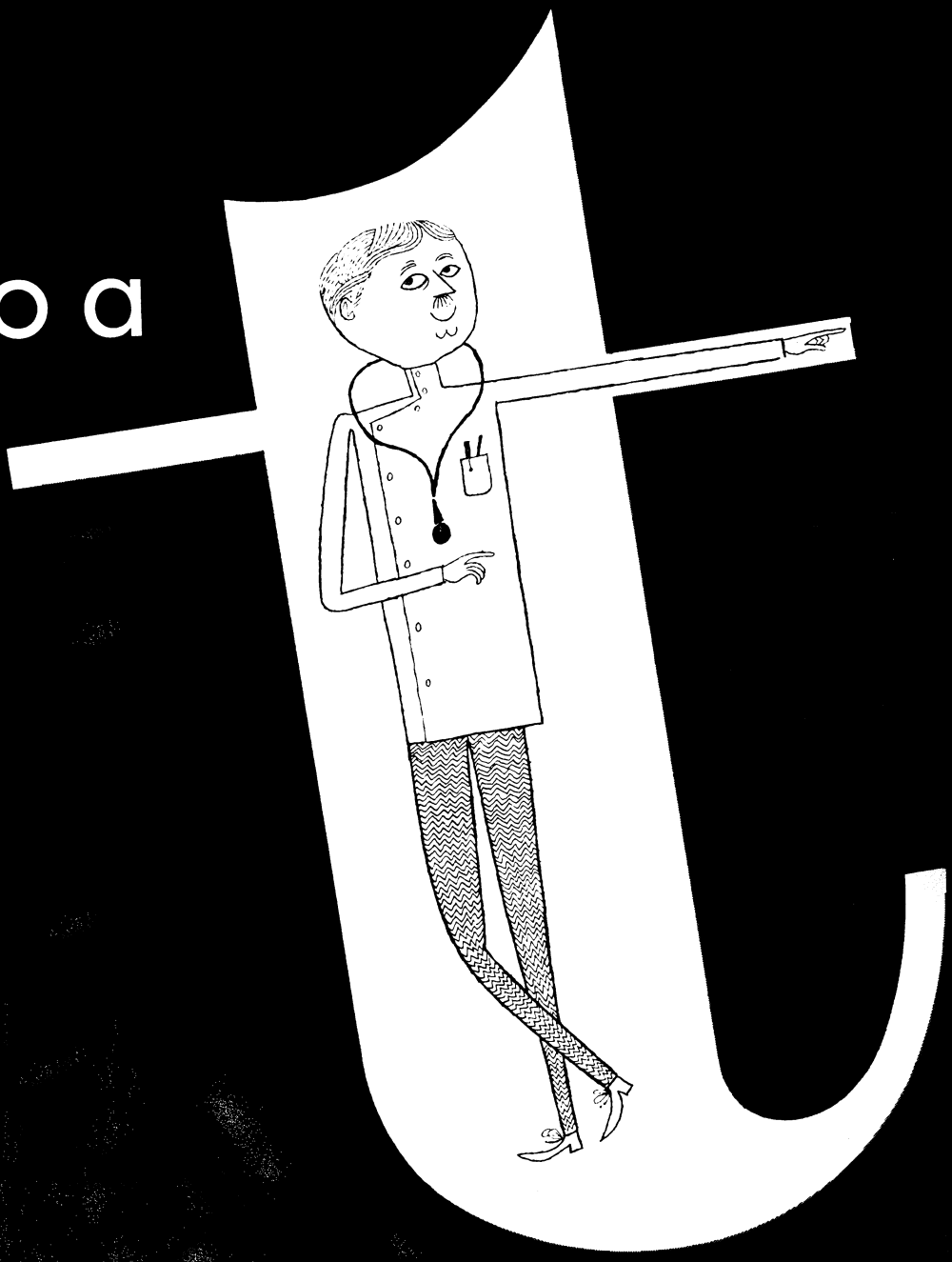
AVAILABLE in vials of 12 and 36 tablets and in bottles of 100. Tablets scored for divided dosages.

INDICATIONS. Simple headaches, neuralgias, dysmenorrhea, muscular aches and pains, discomfort of colds and minor injuries. Particularly useful when gastric hyperacidity is a complication. Useful for relieving pain in the treatment of arthritis.

EACH BUFFERIN TABLET contains 5 grains of acetylsalicylic acid, together with optimum amounts of the antacids aluminum glycinate and magnesium carbonate.

Bristol-Myers Co., 19 West 50 St., New York 20, N. Y.

to a



POSTGRADUATE RADIO PROGRAMME OF
THE NEW YORK ACADEMY OF MEDICINE

arranged by THE COMMITTEE ON MEDICAL INFORMATION
in cooperation with THE COMMITTEE ON MEDICAL EDUCATION
and THE NEW YORK CITY CANCER COMMITTEE

THURSDAYS — 9:00 P.M. — 10:00 P.M. Station WNYC-FM — 93.9 megs.

December 16 RECENT ADVANCES IN THE MECHANISMS AND MANAGEMENT OF VASCULAR HEADACHE—Martin M. Tunis, *Commonwealth Fellow in Medicine, Cornell University College, New York.*

CANCER RESEARCH—DOES IT HELP YOU?—John F. Mahoney, *Director, Bureau of Laboratories, New York City Health Department.*

December 23 THE THROMBOCYTOPENIC PURPURAS—Eugene L. Lozner, *Associate Professor of Medicine, State University of New York, Upstate Medical Center, Syracuse.*

THE PHYSICIAN AGAINST CANCER—Abraham Oppenheim, *Director, Division of Cancer Control, New York City Health Department.*

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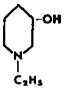

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